TEJUS
CONSULTANTS

No.TC/BBMP/YNK p roject – PMC / 489 / 2022-23

Date: 19/11/22

To
The Executive Engineer
Yalahanka project Division
Bangalore-92

Dear Sir

Sub: Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).

In reference to the above subject, this is to bring to your kind notice that we have scrutinized the **First** and Part bill submitted by **Sri .K lakshmi Narayana Reddy NO 68, 1ST Floor Vyalikaval Society ,Chaithanya Tecno School ,VeeranaPalya ,Bangalore-560045.** towards the above said work and arrived at an amount of Rs **8,22,46,309.58/-(Rupees Eight Crore Twenty Two Lakhs Fourty Six Thousand Three Hundred and Nine Rupees and Fifty eight Paise Only)** the work has been completed satisfactorily.

This is for your kind information.

Thank you and assuring you the best of our Services at all the times

For Tejus Consultants

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS
CONSULTANTS

No.TC/BBMP/YNK p roject – PMC / 486/ 2022-23 Date: 19/11/22

To
The Executive Engineer
Yalahanka project Division
Bangalore-92

Dear Sir

Sub: Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).

01) 4 Seater Student Desk Heavy Fabricated Frame with 18mm pre laminated board top complete as per specification and the directions of Engineer-in-charge

02) Fabricating,providing and erecting in position of MS Hot Dip galvanised SqHollow poles of 132x132 Heavy Guage of length 3000mm with MS.Hot Dip Galvanized grill work as per approved design and drawing of chief architect using 12*25mm galvanized flat for alround frame and 20mm*20mm galvanized forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrowhead at top and bottom.The work is inclusive of throughing flat,square rods,placing welding all the joints,including grinding finishing 2 coats of anticorrosive paint over one coat of metal primer.The rate is inclusive of all material like MS Hollow galvanized pipe,flat,forged square rods,cost of labour for all items of work cost painting,welding,grinding with all lead and lift as per specification including loading with cost and conveyance of all materials labour machinery and incidental charges for the successful complete of the work as per the direction engineer incharge of the work.

The quality and quantity of the above items is found to be satisfactory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

This is for your kind information.

Thank you and assuring you the best of our Services at all the times

For Tejus Consultants

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	madivala machideva park	**Date of Sampling**	07-09-2022
		Date of Testing	08-09-2022

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	75	75	2.50	97.50	95-100
20.00mm	1377	1452	48.40	51.60	30-70
10.00mm	966	2418	80.60	19.40	10-35
4.75mm	476	2894	96.47	3.53	0-5
Pan	106	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

Note:
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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

TEJUS CONSULTANTS

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	madivala machideva park	**Date of Sampling**	07-09-2022
		Date of Testing	08-09-2022

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	76	76	2.53	97.47	95-100
20.00mm	1377	1453	48.43	51.57	30-70
10.00mm	966	2419	80.63	19.37	10-35
4.75mm	476	2895	96.50	3.50	0-5
Pan	105	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	Tejus Consultants, Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	PCC
Sample Location	madivala machideva park	Date of Sampling	07-09-2022
		Date of Testing	08-09-2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	220	220	7.33	92.67	90 - 100
2.36 mm	315	535	17.83	82.17	75 - 100
1.18 mm	420	955	31.83	68.17	55 - 90
0.600 mm	488	1443	48.10	51.90	35 -59
0.300 mm	748	2191	73.03	26.97	8-30
0.150 mm	620	2811	93.70	6.30	0 - 10
Pan	189	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	PCC
Location/Source	madivala machideva park	Date of Sampling	07-09-2022
Period of Soaking	24 hours	Date of Testing	08-09-2022

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		651	638	647	
B	Weight of oven - dry sample gm.		643	630	639	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1684	1676	1681	
E	Bulk specific gravity	B / (C + A - D)	2.657	2.658	2.651	**2.656**
G	Absorption (%)	(A - B) *100 / B	1.244	1.270	1.252	**1.255**

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size			**Proposed Use**	PCC
Sample Location	At Site/Plant			**Date of Sampling**	22.09.2022
				Date of Testing	23.09.2022
IS Sieve Size	**Weight Retained in gm**	**Cum. Weight Retained in gm**	**Cumulative Weight Retained in %**	**Cumulative Weight Passing in %**	**Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size**
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	82	82	2.73	97.27	95-100
20.00mm	1400	1482	49.40	50.60	30-70
10.00mm	970	2452	81.73	18.27	10-35
4.75mm	452	2904	96.80	3.20	0-5
Pan	96	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
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TEJUS CONSULTANTS

Authorised Signatory

Test Report on Cement

TEJUS

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Sample ID	Cement (OPC 43 Grade)
Date of Sample Tested	10-09-2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	104 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	426 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	
	Remarks :		Satisfactory / Not Satisfactory	

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Consultant's Representative

Test Report on Cement

TEJUS

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Sample ID	Cement (OPC 43 Grade)
Date of Sample Tested	08-09-2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	108 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	412 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	
Remarks :			Satisfactory / Not Satisfactory	

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS CONSULTANTS

Consultant's Representative

TEJUS
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Test Report on Cement

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Sample ID	Cement
Date of Sample Tested	23.09.2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	35 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	357 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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Yelahanka Zone
BBMP, Bangalore - 92

TEJUS
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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	Tejus Consultants, Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	22.09.2022
		Date of Testing	23.09.2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	210	210	7.00	93.00	90 - 100
2.36 mm	310	520	17.33	82.67	75 - 100
1.18 mm	410	930	31.00	69.00	55 - 90
0.600 mm	485	1415	47.17	52.83	35 -59
0.300 mm	750	2165	72.17	27.83	8-30
0.150 mm	620	2785	92.83	7.17	0 - 10
Pan	215	3000			-

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS CONSULTANTS

Authorised Signatory

TEJUS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	PCC
Location/Source	At Site/Plant	Date of Sampling	22.09.2022
Period of Soaking	24 hours	Date of Testing	23.09.2022

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	666	634	671	
B	Weight of oven - dry sample gm.	652	628	661	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1686	1686	1698	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.557	2.816	2.665	**2.679**
G	Absorption (%) $\frac{(A-B)*100}{B}$	2.147	0.955	1.513	**1.539**

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Name:	[illegible]
Client:	[illegible]
Consultant:	[illegible]
Contractor:	[illegible]
Source of Sample:	[illegible]
Date of Sample Tested:	[illegible]
Sample Sampled By:	[illegible]

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS 1500-2012
1	a) Initial Setting Time	IS 4031, Part 5	[illegible]	[illegible]
	b) Final Setting Time	IS 4031, Part 5	[illegible]	[illegible]
2	Soundness	IS 4031, Part 3 By Le Chatelier method	[illegible]	[illegible]
3	Standard Consistency	IS 4031, Part 4	[illegible]	[illegible]

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3. Any Query regarding the report must be received within [illegible] days from the date of issue.
4. The material used in the site satisfied the standard of IS 4031 in all tests and hence can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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Project	Construction of Samudhaya Bhavana Building incl. Bus shelter at providing grill fencing and other development works at 407 SFS park, 507 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.

Field Dry Density test by Sand Replacement Method (As per IS 2720 (Part 28)

	Date:	**25-09-2022**
Layer no. or level	WMM I layer	
Depth of hole	200mm	
Field density:	**1**	**2**
Chainage / Location	**cycle track park '@ Ch 90**	**cycle track park'@ Ch 120**
Wt. of wet material from hole (Ww) gms.	5987	5978
Wt. of sand+cylinder before pouring (w1) gms.	15000	15000
Wt. of sand+cylinder after pouring (w2) gms.	10591	10588
Wt. of sand in hole+ cone (w3) gms.	4409	4412
Wt. of cone gms.	1080	1080
Wt. of sand gms.	3329	3332
Bulk density of sand (γs)gm/cc	1.32	1.32
Bulk density of material(i.e. wt. of the wet material) (γb)=(Ww/w4*(γs))gm/cc	2.37	2.37
Moisture meter reading(moisture content)	6.40	6.20
Result		
FDD(Wt.of the dry material)=(100γb/100+mc)gm/cc	2.23	2.23
MDD	2.27	2.27
OMC	6.10%	6.10%
% compaction obtained	98.29	98.24
% compaction required	98%	98%

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Consultant's Representative

TEJUS

Name of Work	:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS, Basaveshwar Nagar Bangalore
Contractor	:	M/s.LNR Ventures Construction pvt Ltd.
Date of Testing	:	27-09-2022
Type of Mix	:	WMM
Sample I/D	:	WMM 1

GRADATION FOR WMM
(As per MORT&H 400-11)

Sample Location:	cycle track park	Date of Sampling:	26-09-2022
		Date of testing:	27-09-2022
Type of material & Purpose:	WMM	Oven Dry Wt.(gms):	10000.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
53	0	0	0.00	100.00	100.00
45	365	365	3.65	96.35	95-100
22.4	1794	2159	21.59	78.41	60-80
11.2	2240	4399	43.99	56.01	40-60
4.75	2012	6411	64.11	35.89	25-40
2.36	1380	7791	77.91	22.09	15-30
0.6	774	8565	85.65	14.35	8.0-22.0
0.075	882	9447	94.47	5.53	0-8
Pan	553	10000			
Total	10000				

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BBMP, Bangalore

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Consultant's Representative

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	06.10.2022
		Date of Testing	06.10.2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	70	70	0.70	99.30	95 - 100
10.00 mm	4889	4959	49.59	50.41	25 - 55
4.75 mm	4356	9315	93.15	6.85	0 - 10
Pan	685	10000			

Remarks : Satisfactory / Not Satisfactory

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	WMM	**Date of Sampling**	26-09-2022
Sample Location	cycle track park	**Date of Testing**	27-09-2022

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	363.00	368.00	343.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	271.00	285.00	254.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	92.00	83.00	89.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.34	22.55	25.95	
5	Average Aggregate impact value	(%)	24.62			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

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Consultant's Representative

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 40ft SFS park, 20ft SFS park, Sri madivala machideva park and Mayor Sandeep Limbikrishnan Park of 2 Gitumba Assembly Constituency Under Amruthu Nagarothana Grants (PACKAGE-42).
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s LNR Ventures Construction pvt Ltd.

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	WMM	Proposed Use	WMM
Sample Location	cycle track park	Date of Sampling	26-09-2022
		Date of Testing	27-09-2022

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge D gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	641	85	526	73
16.0	12.5	1125	117	940	118
12.5	10.0	775	65	724	53
10.0	6.3	615	63	562	48
Total		3156	330	2752	297

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.46
Elongation Index(%):	10.79
Combined FI+EL (%)	21.25

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Asst. Executive Engineer
Project Division
BBMP

Consultant's Representative

TEJUS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Mayor Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	06.10.2022
Period of Soaking	24 hours	Date of Testing	06.10.2022

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	650	625	644	
B	Weight of oven - dry sample gm.	640	615	634	
C	Weight of Pycnometer Pilled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1680	1685	1682	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.612	2.860	2.675	2.716
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.563	1.626	1.577	1.589

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS CONSULTANTS

Authorised Signatory

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	Tejus Consultants, Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Sample Location	At Site/Plant	**Date of Sampling**	06.10.2022
		Date of Testing	06.10.2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	205	205	6.83	93.17	90 - 100
2.36 mm	315	520	17.33	82.67	75 - 100
1.18 mm	425	945	31.50	68.50	55 - 90
0.600 mm	485	1430	47.67	52.33	35 -59
0.300 mm	780	2210	73.67	26.33	8-30
0.150 mm	680	2890	96.33	3.67	0 - 10
Pan	110	3000			-

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
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CONSULTANTS
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TEJUS
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Test Report on Cement

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAG 02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Sample ID	Cement
Date of Sample Tested	06.10.2022
Sample Supplied By	Agency

SLNo.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	35 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	370 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS CONSULTANTS

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KERB STONE (CORE) TEST REPORT

Name of Work	:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill feneing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s.LNR Ventures Construction pvt Ltd.
Consultant	:	TEJUS CONSULTANTS
No.of Sample Tested	:	3
Date of Testing	:	6-10-2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength
1	50.00	85.00	0.378	2264.87	1.70	0.960	29.62	15.09	16.29	15.64	19.55
2	50.00	85.00	0.389	2330.78	1.70	0.960	29.78	15.17	16.38	15.72	19.6
3	50.00	85.00	0.388	2324.79	1.70	0.960	29.85	15.20	16.42	15.76	19.70

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Asst. Executive Engineer
Project Division No. 92

Consultant's Representative

TEJUS

Test Report on Cement

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Sample ID	Cement
Date of Sample Tested	06.10.2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS CONSULTANTS

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Consultants	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	Concrete	
Sample Location	At Site/Plant	**Date of Sampling**	06.10.2022	
		Date of Testing	06.10.2022	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	588	588	5.88	94.12	90-100
10.0	4789	5377	53.77	46.23	40-85
4.75	3890	9267	92.67	7.33	0-10
Pan	733	10000			

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Remarks : Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

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Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Location:	Cement
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	attur bus stop

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressi strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	08-10-2022	15-10-2022	7 days	8.824	22500	398	17.69	
2	08-10-2022	15-10-2022	7 days	8.832	22500	395	17.56	17.53
3	08-10-2022	15-10-2022	7 days	8.870	22500	390	17.33	

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Consultant's Representative

TEJUS CONSULTANTS

Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Location:	Cement
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	attur bus stop

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	08-10-2022	05-11-2022	28 days	8.824	22500	593	26.36	26.24
2	08-10-2022	05-11-2022	28 days	8.832	22500	592	26.31	
3	08-10-2022	05-11-2022	28 days	8.870	22500	586	26.04	

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Name of Work	:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s.LNR Ventures Construction pvt Ltd.
Consultant	:	Tejus Consultants, Bangalore
Date of Testing	:	07-10-2022
Technical Reference	:	IS 1786:2008, IS1608:2005, IS1599:1985(Reaffirmed2006)
Sample Identification	:	10mm, 12mm, 16mm, 20mm, 25mm TMT Fe500 Bars

Sl. No.	Nominal size dia in mm)	Mass per metre (kg/m)	TENSILE STRENGTH		
			0.20% proof stress/yield stress N/mm2	Tensile strength N/mm2	Elongation,percent on gauge length
1	8	0.397	518	563	16
2	10	0.619	523	576	19
3	12	0.890	537	588	20
4	16	1.583	549	595	21
5	20	2.478	560	609	22

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Yelahanka Zone
Bangalore - 92

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KERB STONE (CORE) TEST REPORT

Name of Work	:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s.LNR Ventures Construction pvt Ltd.
Consultant	:	TEJUS CONSULTANTS
No.of Sample Tested	:	3
Date of Testing	:	8-10-2022
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength
1	50.00	85.00	0.377	2258.88	1.70	0.960	29.64	15.10	16.30	15.65	19.5
2	50.00	85.00	0.389	2330.78	1.70	0.960	29.72	15.14	16.35	15.69	19.6
3	50.00	85.00	0.388	2324.79	1.70	0.960	29.89	15.22	16.44	15.78	19.7

Note:

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

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KERB STONE (CORE) TEST REPORT

Name of Work	:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s.LNR Ventures Construction pvt Ltd.
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
No.of Sample Tested	:	3
Date of Testing	:	11-10-2022
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M$_{40}$

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equiva Cub Compre Stren (N/m
1	99.00	85.00	0.385	2306.21	1.70	0.960	29.65	15.10	16.31	15.66	19.
2	99.00	85.00	0.395	2366.73	1.70	0.960	29.70	15.13	16.34	15.68	19.
3	99.00	85.00	0.392	2334.70	1.70	0.960	29.50	15.08	16.28	15.63	19.

Note;

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Asst. Executive Engineer
Bruhat Bengaluru Mahanagara Palike
Yelahanka Zone
EBWL, Bangalore-560 064

TEJUS CONSULTANTS

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Test Report on Compressive strength of Solid Block

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other devel works at 407 SPS park, 707 SPS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s.LNR Ventures Construction pvt Ltd.
Cross sectional area	80000mm2
Size of cube	400mm x 200mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minin Requi compre streng indivi uni
			mm^2	KN	N/mm^2	N/mm^2	N/m
1	11.10.2022	11.10.2022	80000	409.00	5.11	5.08	5.0
2	11.10.2022	11.10.2022	80000	403.00	5.04		
3	11.10.2022	11.10.2022	80000	406.00	5.08		

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples colleted at site/received in the laboratory.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS CONSULTANTS
Authorised Signatory